



PCN Accelerates Installed Serial (SCADA) Networks into Dual Operational TCP/IP & RS-485 Enabled Smart Grid Networks

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Based upon the company's core open standards embedded systems platform, PCN is now releasing its newest Grid MicroCircuits™ product delivering advanced TCP/IP Enabled Ethernet functionality on existing & operational mission critical serial twisted pair RS-485 networks.



Operational Benefits of IP-485 technology & products:

1. The EC-3485 IP-485 module multiplexes Ethernet data simultaneously with existing operational RS-485 serial data networks allowing continued use of legacy SCADA protocols without degradation of existing network signals or limiting system functionality while immediately connecting SCADA networks to Internet Cloud Computing.
2. With IP-485 technology products, users can now expand and update existing legacy serial data buses using twisted pair networks and additionally transport Ethernet communication on the same twisted pair of wire. Based on the most advanced and reliable embedded power line systems available, PCN's IP-485 technology modules minimize RS-485 latency and guarantee "no serial packet chunking" during the transport of RS-485 data.
3. Existing twisted pair wiring within multi-drop RS-485 networks can now carry multiple-node communication signals simultaneously for legacy serial communication as well as Multi-Node Ethernet network communication. No additions of CAT5 cabling are required and full multi-drop support means that installations avoid adding bundles of Ethernet cables in conduit and wiring trays.

Applications include commercial, industrial and energy OEM and Utility installations where added TCP/IP functionality is needed or required. Existing SCADA functionality and embedded firmware applications can remain the same for the legacy equipment while adding new Ethernet Networking capabilities.

With IP-485 technology products, existing SCADA infrastructures no longer need to change or obsolete twisted pair serial networks that are running critical controls or automation. PCN's IP-485 technology products add TCP/IP Enabled functionality while minimizing the associated costs of new wire, connectors, switches and other TCP/IP infrastructure needs that are often cost or labor prohibitive.

Industrial and Commercial OEM customers that utilize SCADA networks and require both SCADA solutions and advanced TCP/IP solutions can now meet all of their needs on the same existing installed twisted pair infrastructure without additional CAT5 runs, converters or switches. This allows accelerated Smart Grid Connectivity & cost savings within Industrial, Commercial and Utility OEM markets while maintaining existing open standards already in place.

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About PCN Technology, Inc.

PCN is an embedded networking company that designs, develops and commercializes its novel Grid MicroCircuits™ technology. The Grid MicroCircuits™ platform and related products meet the immediate market needs of industrial & commercial OEMs as well as Utilities while simultaneously providing a

platform for ongoing LAN and WAN Smart Grid evolution and connectivity. Based on its award-winning patented technologies, PCN Grid MicroCircuits™ provide universal open-standard re-purposing of copper infrastructure for true convergence of disparate systems tied to the power system while integrated smart grid embedded networked solutions. www.pcntechnology.com